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PAARA P.O. BOX 911
MENLO PARK, CA. 94025

vol. 23

DECEMBER 7, 1979

PAARA

GRAPHIS



**palo Alto
AMATEUR
RADIO ASSN.**

MENLO PARK C.D. RADIO CLUB, K6YQT



FIRST ANNUAL
220 MHZ QSO PARTY

1st PRIZE: LARGE SMOKED HAM & TROPHY
2nd PRIZE: TROPHY & \$40.00 GIFT CERTIFICATE
3rd PRIZE: TROPHY & \$20.00 GIFT CERTIFICATE
LAST PRIZE: SCREW DRIVER

ALL STATIONS SUBMITTING A LOG WILL RECEIVE A CERTIFICATE OF APPRECIATION.

CONTEST STARTS AT NOON, NOV. 30, RUNS UNTIL NOON DEC. 3, 1979.

RULES

1. All QSO's must be 2 way on 220MHZ
2. All Qso's from one QTH, a temporary QTH is OK, no aeronautical mobile.
3. All QSO's must be simplex or thru one repeater, no linkups.
4. Station worked must acknowledge contest contact.
5. Score is one (1) point for each station worked.
6. All stations participating must be within a 200 mile radius of San Jose.
7. Logs must be submitted by noon December 17, so awards can be made promptly.
8. Logs will be checked, award decisions are final.
9. Winners must pick up their prize before Jan. 1, 1980.

NOTE

FREE LOG BOOKS AVAILABLE AT ALLTRONICS

PAARagraphs is the official organ of

The Palo Alto Amateur Radio Association and the Menlo Park Civil Defense Radio Club

1979 CLUB OFFICERS

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 Ed Fairbanks W6AIN
 Swede Swenson KA6BEU
 Shannon Lile K6TNY

PAARA POLICIES

Membership in PAARA is \$6.00 per calander year (payable in January) which membership includes a subscription to PAARagraphs. Interested others may subscribe to PAARagraphs for \$6.00. Make payment to:

PAARA, P.O. Box 911, Menlo Park, CA 94025

Written contributions to P.O. Box above or 1043 Del Norte Ave., Menlo Park, CA 94025

PAARagraphs STAFF

Editor : Bob Baum W6BFH
 Production :
 Advertising: Swede Swenson KA6BEU
 Printing : Baker Graphics FINE
 Mailing : Ed Fairbanks W6AIN
 Cover : Sue Lindner IØVLY

REGULAR MEETING

FRIDAY

DECEMBER 7, 1979

7:30 p.m.

Rooms 15-17, Menlo Park Recreation Center, Civic Center, Alma at Mielke Drive,

Menlo Park

HO! HO! HO! SEM and DU HAVE
 A SURPRISE FOR ALL!
 A FUN MEETING IS ASSURED-

CIRCLE THE DATE

Friday

December ⑦, 1979

7:30 p.m.

FUTURE MEETINGS: Christmas Party, December 17, January 4, 1980, February 1, March 7, April 4, May 2, June 6, Field Day June 28-29, July 11, August 1, September 5, October 3, November 7, December 5, January 2, 1981, February 6, March 6, April 3,...enuf.

if you can't invite a friend, invite someone

PAST CORNER: Hans, WB6KFO, showed us more of Japan than most tourists ever see in one trip. Slides from his many visits over the last year took us from San Francisco to Tokyo via the polar route, around Tokyo, day and night spots, looking and shopping. Rides on the subway, local trains and the "Bullet" to the out country and the Geisha girls. We visited with a number of the JA fraternity, seeing their beautiful stations, their QSL cards and their antenna farms. Anyone who saw the slides and listened to Hans who didn't go home and start rearranging his station must have had a pretty good start. Switzerland—Japan—where can we get Hans sent next for a further view on "Hans Around the World"?

Jim, K7UDG, expressed appreciation to PAARA for the successful efforts of the Auction and Flea Market to the Explorer Post. He indicated their shack has been rebuilt and is now a hospitable place—except for the stacks of gear that are surplus.

Nominations were put off until this issue of PAARAgaphs and the night of the election—December 7.

Gerry, WA6LNV, reported on the upcoming Christmas Party, December 17—Monday—See the note a paragraph or page down the line for details.

John, KA6UUG, distributed raffle tickets during the refreshment (coffee, cookies and eyeball QSO's) period and Bob, W4BFN, walked off with the last of the drawing—9' 8 3/8" of RG-8U (v.f. .66) which will make a good quarter wave stub for some out of band frequency.

The meeting ended a little before 10 with those who had to get up early Saturday going down the block and around the corner to continue hamming it up.

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BOARD CORNER: The Board of Directors met November 7 in the Club trailer, located just inside the guard gate on 4th Street at SRI, from 7:30 to 9:00 p.m., and determined:

1. That Ted Harris, W8RPA, and XYL, be invited to the Christmas Party to present the Field Day plaque to PAARA.
2. That Ed, W6AIN, examine postal regulations to determine if PAARA is eligible for new non-profit organization postal rates.
3. That PAARAgaphs cost about \$850 per year and nets about \$300 in advertising.
4. Reaffirmed, after quiet discussion, that PAARA dues be increased to \$6.00 per year beginning 1980.
5. That Bob, K6SEM, make a report to PAARA for inclusion in PAARAgaphs.

6. To include a copy of the Club Bylaws in a near-future issue of PAARAgaphs.

7. To organize a spring-time field trip to KFS at Half Moon Bay—a picnic, excursion type of thing.

8. Rick, WA6NCX, our sometimes most eastern member, will present the January program.

And the unrecorded activities continued down the block and around the corner only to find no skittle.

...

PUBLIC RELATIONS CORNER: About 50 attended the November meeting. The list of attendees was always where your reporter wasn't, so visitors may miss an introductory issue of PAARAgaphs. We will try to pick them up next month.

PRESIDENT'S YEAR END REPORT: 1979 has been a great year for PAARA. The easiest thing to do is list some specifics:

- Field Day: Number One!
- Auction and Flea Market: Best Ever
- Picnic: A very successful first
- Explorer Post 599: Outstanding new venture
- PAARAgaphs: Better than ever
- Emergency Preparedness: 2 SET'S and new cooperation with city
- Monday Night Net: More checkins than ever
- Meetings: Record attendance and fine programs
- Christmas Party: Looks GREAT

The list goes on—but this misses the point. The strength of PAARA is the people. PAARA is not a repeater club, or a DX Club or a VHF Club or a Novice Club or an Old Timers Club or a ... We have members involved in all aspects of Amateur Radio—and that's our interest and strength.

As I see it, our number one challenge for the 80's is to be involved in the activities of interest to the members. We want to get everyone involved in Club activities, but more importantly, we want to have the activities that interest you. Speak up—what kind of programs to you want? What kind of field trip? Special projects?

A "Thank You" to everyone for making this a great year for PAARA and a fun one for me personally. Have a super holiday season and see you at the Christmas Party.

Bob, K6SEM

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PENANINK CORNER: Ma Bell changed phone numbers of:

Andy Anderson, K6EHS	to 494 0831
George Callander, WA6SZX	856 1752
Ken Dwitht, WA6NYB	856 0727

CUT AND PASTECORNER: Please add a new member to your November Roster:

Vanover, James F.

V.A.M.C., 3801 Miranda Av., MPD,

Palo Alto, CA 94304

NEW MEMBER CORNER: Jim Vanover has been attending meetings for the past three months and thinks amateur radio is for him. Your editor has talked with him and thinks so too. Jim was an enthusiastic worker at the Auction/Flea Market, resting his weary back on a wall once in a while, but most always on the move.

He has a visual handicap that he is gradually overcoming and has learned a good deal of theory and rules and regulations. While he has only been studying the code a short time he would have, in a mock test, have passed his novice test except for a few letters.

We look forward to having Jim at least on the bottom rung of the ladder in the next month or so.

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PUBLIC SERVICE CORNER: On the morning of Veterans' Day, November 11, seven PAARA members reported to Herman Kemp, in charge of volunteer activities at the Menlo Park VA Medical Facility on Willow Road.

The occasion: the 10,000-meter Vet-a-Run; the purpose: to provide auxiliary communications during the event.

Participating were: Ed, W6AIN, operating stationary mobile near the Bohannon Street Post Office, Dave, WB6JFH, and Jim Vanover, new member, operating stationary mobile control station at the VA; Bill, W6DVB, operating mobile in the Red Cross service van; Alan, WA6AZP, operating a bicycle mobile accompanying the lead runners; Steve, K6FS, operating bicycle mobile accompanying the walkers; and Al, AG6D, as stand-by-in-case-of-need.

The event turned out approximately 150 runners from around the Bay Area who raced, jogged and walked/struggled around the course to the Bohannon Industrial Park and back. The winning time was about 35 minutes and the race was concluded in an hour and five minutes.

Prizes were awarded by Mayor Doug Dupen of Menlo Park to first and second placers in male and female categories of three age groups, and to first and second wheelchair contestants.

Before the race and during the awards ceremonies music was played by a local band and by the Conquistadores Drum and Buble Corps from South San Francisco. The day turned out sunny and pleasant.

Thanks to Jim Vanover for clueing in the Club on this opportunity to once more show the public service spirit of amateur radio.

NOMINATIONS CORNER: The nominating Committee, Fred, K6YT, Eric, W6DU and Terry, N6RY has developed the following slate of officers and Board Members for 1980:

President	Bob Wheeler	K6SEM
Vice President	Erik Edberg	W6DU
Secretary	Gerry Tucker	WA6INV
Treasurer	Irene Lile	WB6RAF
Board Members	Gerry Wagstaffe	W6NIR
	Terry Conboy	N6RY
	Jock McKaig	N6YV
Carry-over		
Board Members	Ed Fairbanks	W6AIN
	Swede Swenson	KA6BEU
	Shannon Lile	K6TNY

Other nominations will be accepted prior to the election to be held December 7 at the regular meeting.

* * *

UPGRADE CORNER:

Bill King, WA6OFN, a long-time Tech, upgraded to General October 17, just a day late to be mentioned in last months PAARAgaphs. By now it's old stuff to Bill since he's licked the problem of using all the RF up in the antenna tuner. He has been busy enjoying the HF Spectrum and the Monday following his upgrade he coaxed a bunch of the two-meter gang to listen for him on all the bands—one at a time!

Doug Baum, KA6DQR, a not-so-long-time Novice, elected, during a week in drydock at Newport News, to take a day off to go to Norfolk and became a General November 1. His first chore was to get a microphone and the next to get the ship floating again. Then followed his first QSO as a General with his OM, Bob, W6BFH through the Pacific Maritime Net. Ed, W6KJI, alerted Bob that Doug was looking for him from 28N 79W. The first QRM free QSO we'll get his Mom on the horn.

Swede Swenson, KA6BEU, is looking for a new call because of his efforts November 14 when he thought he became a Tech but actually, or apparently, became a General. Swede will have to tell you of the confusion. Not much doubt that Swede worked his way into radio with a vengeance and we're all glad he made it. His only lament: "Now I can't make DXCC as a Novice".

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PILE-UP CORNER: He was never a DX hound, but as a result of KA5DQR's travels, W6BFH was surprised to work ten European countries in about 20 minutes as a result of his contacts with Doug. They were a patient lot. "PSE QRX

FER MY QSO KA5DQR/MM1" The form might not have been right but they waited. So many calls were heard for DQR they couldn't be recorded...and when he goes off the air, he's gone—like to dinner!

Gerry, W6NIR, ailing with a sore leg, moved the honest to gosh QRP rig into the bedroom (how come a sick ham can always move equipment?) and worked seventeen countries in fewer minutes during the DX contest late in October. Gerry predicted record scores because of propagation conditions that have been great lately.

" " "

MODIFICATION CORNER: From one of the newsletters recieved by PAARA, the following was gleaned. Unfortunately the cover page was not attached so only the author can be acknowledged:

GOOD NEWS

Thought I'd pass this info on since so many Hams have Icom IC22S mobile rigs. The IC22S is back on the market and the factory has made available a set of instructions to modify the IC22S for operation on the repeater subbands 144 - 145 MHz, without botching it all up. It still is on the 15 KHz step band plan, as is used here in Northern California, so it's a super mod and not complex. I will be happy to supply copies at no charge if you drop me a sase.

I must add that I am quite pleased with the attitude of Icom. I had a need to call and ask about a couple of things as well as request the above mod information and one couldn't ask for more cooperation — super folks and excellent gear.

73, Dick Lietrch, WB6WKM
(ed. note: Dick may not be happy supplying copies outside his Club, maybe SCCARA)

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PAARANet CORNER: Earl, W6VYC, checked into the PAARA net Monday, November 5, for the first time, made possible using his new AZDEN PCS 2000. Using a 5/8 wave vertical mounted on his desk he worked most members. He says the rig has everything he was looking for and some features he didn't know existed.

The Monday evening PAARANet meets at 8:30 pm on 147.45 MHz with 25 to 30 checking in and 12 or 15 doing the talking. For the least part, Eric, W6DU, controls his remarks to "yup" or "nup" but when he says more it's usually worth listening to.

Swap-shop and rag-chews follow the brief Club news and activities section. The net is usually over by 9 p.m. except for a few that carry on discussing equipment problems or great events. If you have the gear and don't check in, you're missing something.

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MONDAY, DECEMBER 17, 1979

CHRISTMAS PARTY



! MENU (or SHEU, depending on who cooks)
Cross Rib of Beef, au jus
or

Coq au vin
Long Grain Rice or Potatoe
Fresh Vegetable
French Rolls and Butter
Ice Cream or Fresh Fruit Sherbert
Coffee
\$7.75

MONDAY, DECEMBER 17, 1979

No host cocktails at 6:00

Dinner at 7:00 p.m.

* * * *

Gerry, WA6LNV, would like your reservations in by December 7, with payment, so he can make arrangements for the Dinner. Either see him at the meeting or mail your cheque to him at:

1112 Ramona St.
Palo Alto, CA, 94301

* * * *

FOR THOSE WHO CAN'T MAKE IT:

MERRY CHRISTMAS and a HAPPY NEW YEAR

from

Each of us to all the others

* * * *

UNCLASSIFIED CORNER:

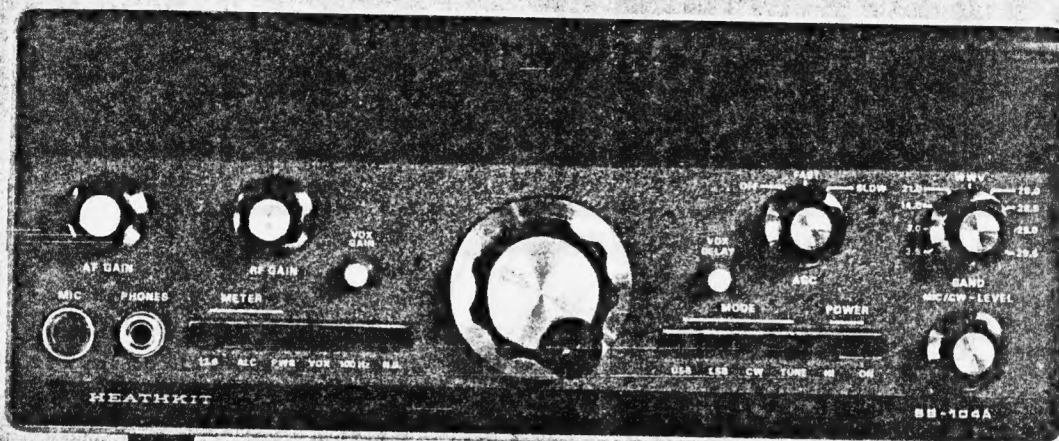
FOR THE NEEDY: Dave, WB6JFH, has manuals for the HW-101 and HW-? he will make available to someone who needs either. Wisely considering what rig to get he studied the manuals before he settled for the SB-104. Contact Dave at the meeting or if you really need them give him a call at 366 9672.

FOR SALE: MJF Versa Tuner II, widely advertised. Almost new. Asking \$85. call Bill, WA6TZN, 225 Mt. Herman #16, Scotts Vly, 95066

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EDITOR'S CORNER: Typed whilst listening to Rhapsodie über ein Thema von Paganini für Klavier und Orchester op. 43 and it could have been said in less space in English— but one has to fill out the page.

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When things get tough, Heath gets tough. The SB-104A is a proven performer, and we're out to show you the kind of real performance/price values you get when you buy from Heath. Compare the features, specs and performance with any other transceiver. We know the answer you'll get! And, while you're at it, check our accessory prices too — External VFO, Station Console, Power Supply and Monitor Scope. Heath wins again.

And you'll be a winner, too, the moment you experience the excitement and convenience of SB-104A operation. Apply power and almost instantly six red digits are ready to display your operating frequency to within ± 200 Hz accuracy. Pushbutton select CW upper, or lower sideband transmission, plug in your key, or opt for PTT or VOX operation and you're ready to experience broadband solid-state excitement.

Spin the main tuning knob and appreciate its feel as you smoothly move the 104A's temperature-compensated FET Hartley VFO up or down the band. And as you QSY, you'll quickly discover that the SB-104A's completely re-engineered front end receiver board really means business! Its circuitry is factory pre-assembled and tested, incorporates individual pre-selector filters for each band, features balanced first and second mixers, and plays a large part in the 104A's less than 0.5 microvolt sensitivity figure.

The SB-104A's receiver features razor sharp filtering, excellent IF selectivity, individual crystal-controlled BFOs for USB, LSB and CW, and balanced mixer product detection. Received audio quality is outstanding, precisely tailored for SSB and CW re-

production. And to make your QSOs more enjoyable, by reducing the nuisance of QSB, you can switch select either fast or slow AGC action.

When it comes to innovation, the SB-104A's transmitter section is second to none. You have a choice of 100 watts out for "barefoot" operation or, with the touch of a button, select one watt out and turn your 104A into Ham radio's most sophisticated QRP rig. Transmitter circuitry features quad op-amp audio processing on both phone-patch and microphone inputs, filter sideband generation, crystal-controlled heterodyne oscillators for maximum frequency stability, and a unique ALC system to eliminate distortion-producing overdrive. Most importantly, the SB-104A utilizes driver and PAs in a broadband no tune push-pull configuration.

For extra operating performance, add the optional SBA-104-3 400 Hz CW crystal filter or cut ignition noise by installing the SBA-104-1 noise blanker.

Operates from a charging 12 VDC auto electrical system or the PS-1144 Power Supply.

Kit SB-104A, Shpg. wt. 32 lbs. Was \$749.95, Now 599.95

Noise Blanker for SB-104A.
Kit SBA-104-1, Shpg. wt. 1 lb. 32.95

400 Hz CW Crystal Filter for SB-104A.
Kit SBA-104-3, Shpg. wt. 1 lb. 44.95

Look At These Super SB-104A Specifications!

Frequency Coverage: 3.5 MHz through 29.7 MHz amateur bands, 15 MHz WWV receive only. Frequency Stability: Less than 100 Hz/30 min drift after 30-min. warmup; less than 100 Hz drift for $\pm 10\%$ change in primary voltage. Readout Accuracy: Within ± 200 Hz ± 1 count. TRANSMITTER — RF Power Output: High Power (50-ohm non-reactive load), SSB: 100 watts PEP ± 1 dB; CW: 100 watts ± 1 dB. Low Power SSB: 1 watt PEP (minimum); CW: 1 watt (min.). Output Impedance: 50 ohms, less than 2:1 SWR. Carrier Suppression and Unwanted Sideband Suppression: —50 dB down from 100 watt single-tone output at 1000 Hz reference. RECEIVER — Sensitivity: 0.5 for 10 dB S+N/M for SSB. Selectivity: 2.1 kHz minimum at —6 dB, 5 kHz max. at —60 dB. (2:1 nominal shape factor). CW Selectivity: (with accessory CW filter) Selectable 2.1 kHz/400 Hz. IM Distortion: —65 dB min.; —57 dB typ. with noise blanker. Image Rejection: —60 dB min. Dimensions: 5 $\frac{3}{4}$ " H x 14 $\frac{1}{2}$ " W x 13 $\frac{3}{4}$ " D.

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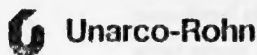
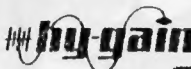
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